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STATE OF MONTANA

BULLETIN

OF THE

Department of Public Health

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No. 6

MONTANA STATE BOARD OF HEALTH

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Consulting Sanitary Engineer.

HELENA, MONT.

HELENA, MONTANA.

Published Monthly at Helena, by the State Board of Health.

"The science of disease prevention, if properly applied, can add fifteen years to the present average length of human life."—Prof. Irving Fisher, Yale.

This Bulletin will be mailed monthly to any person in Montana upon request mailed to the Secretary of the State Board of Health at Helena.

AMENDED REGULATIONS FOR THE QUARANTINE OF SCARLET FEVER AND MEASLES.

At the regular semi-annual meeting of the State Board of Health, held October 1st, 1914, some changes were made in the regulations relative to the quarantining of scarlet fever and measles.

Scarlatina, Scarlet Fever, Scarlet Rash.

Regulation 10. Health Officer Must Investigate and Quarantine—Any local or county health officer having knowledge of or having reason to suspect the presence of scarlet fever within his district shall immediately investigate, if necessary, and shall at once place under quarantine all persons suffering from this disease and all persons who have been exposed to the infection except the attending physician, the health officer, in case of death, a licensed undertaker. Quarantine for scarlet fever must be a complete quarantine, no person being permitted to leave the premises.

Period of Quarantine—The minimum time for the quarantine of scarlet fever shall be twenty-eight days from the beginning of the attack. The Health Officer must not raise the quarantine until he is satisfied that there is no further danger of infection from the patient.

Regulation 11. Persons and Things Deemed Infected—The room or rooms occupied by the patient, as well as all rooms which have been entered by any person exposed to the contagion, and all persons who have entered such room or rooms or who have come in contact with those who have charge of the patient shall be deemed infected and must be disinfected under the personal supervision of the local or county health officer and in accordance with the regulations prescribed by the State Board of Health.

Measles.

Regulation 14. Any local or county health officer having knowledge of or having reason to suspect the presence of measles in his district, shall, if necessary, make investigation and place under quarantine all persons found to be suffering with this disease.

Period of Quarantine. The quarantine for measles shall be two weeks from the beginning of the disease, and longer, if in the opinion of the health officer, it is necessary to prevent the spread of the disease.

Children from a house which has been quarantined for measles, who have not had the disease, shall not be allowed to attend school or any public gatherings.

Before quarantine is raised the room or rooms which have been occupied by the patient, must be thoroughly aired and cleaned and all clothing and bedding used by the patient must be exposed in the open air for at least two hours.

At the same meeting the following regulation was passed:

"When the State Board of Health has satisfactory evidence that any person, persons, firm or corporation have sold, or have in their possession with the intent to sell, any carcass or part of the carcass of any animal or fowl which has died from any cause other than being slaughtered in a sanitary manner, or the carcass or part of the carcass of any animal that shows evidence of any disease, or that came from a sick or diseased animal, or the carcass or part of the carcass of any calf that was killed before it had attained the age of four (4) weeks, the said person, persons, firm or corporation shall have their license revoked by the State Board of Health."

**COMMUNICABLE DISEASES REPORTED TO THE
STATE BOARD OF HEALTH FOR THE MONTH
OF SEPTEMBER, 1914.**

Smallpox—Choteau, 2; Custer, 1; Flathead (Excl. of Kalispell) 1; Jefferson, 1; Madison, 1; Missoula (Excl. of Msla. City), 2; Silver Bow (Excl. of Butte), 4; Butte, 5; Total. 17. Total last month, 30.

Diphtheria—Great Falls, 1; Fergus, 2; Park (Excl. of Livingston), 4; Butte, 2; Total, 9. Total last month, 11.

Scarlet Fever—Cascade (Excl. of Gt. Falls), 3; Gt. Falls, 4; Custer, 1; Dawson, 1; Fallon, 1; Hill, 2; Lincoln, 10; Missoula (Excl. of Missoula City), 2; Butte, 2; Stillwater, 5; Sweet Grass, 1; Sheridan, 1; Yellowstone (Ecl. of Billings), 3; Billings, 5; Total, 40. Total last month, 47.

Typhoid Fever—Blaine, 2; Broadwater, 1; Cascade (Excl. of Great Falls), 5; Great Falls, 6; Choteau, 3; Custer, 3; Dawson, 6; Fergus, 5; Flathead (Excl. of Kalispell), 2; Kalispell, 3; Gallatin (Excl. of Bozeman), 6; Hill, 17; Helena, 2; Powell, 1; Richland, 2; Butte, 4; Stillwater, 1; Sweet Grass, 1; Sheridan,

2; Teton, 5; Toole, 3; Valley, 1; Billings, 3; Total, 84. Total last month, 51.

Measles—Great Falls, 1; Madison, 3; Valley, 1; Total, 5. Total last month, 12.

Epidemic Cerebro Spinal Meningitis—Cascade (Excl. of Gt. Falls), 1; Butte, 1; Total, 2. Total last month, 0.

Tuberculosis—Great Falls, 1; Fergus, 1; Livingston, 1; Butte, 24; Billings, 1; Total, 28. Total last month, 16.

DEATHS (EXCL. OF STILLBIRTHS*) REPORTED TO THE STATE BOARD
OF HEALTH FOR THE MONTH OF SEPTEMBER, 1914, ARRANGED
ACCORDING TO COUNTIES AND PRINCIPAL CITIES.

DISCUSSION — The following discussion is based on the results of the present study.

BIRTHS (EXCL. OF STILLBIRTHS*) REPORTED TO THE STATE BOARD
OF HEALTH FOR THE MONTH OF SEPTEMBER, 1914, AND
COMPARATIVE BIRTH AND DEATH RECORD IN
THE STATE.

| | Males | Females | Total | Excess of Deaths | |
|--------------------------------|-------|---------|-------|------------------|-----|
| Deaths..... | | | | | |
| Totals..... | | | | | |
| Excess of Births..... | | | | | |
| Beaverhead | 4 | 2 | 6 | 8 | 2 |
| Broadwater | 1 | 2 | 3 | 2 | 1 |
| Carbon | 20 | 17 | 37 | 14 | 23 |
| Cascade Excl. of | 8 | 11 | 19 | 5 | 14 |
| Great Falls | 23 | 31 | 54 | 30 | 24 |
| Choteau | 6 | 11 | 17 | 7 | 10 |
| Custer | 13 | 12 | 25 | 8 | 17 |
| Dawson | 14 | 14 | 28 | 8 | 20 |
| Deer Lodge Excl. of | | | | 12 | 12 |
| Anaconda | 6 | 13 | 19 | 11 | 8 |
| Fergus | 18 | 20 | 38 | 8 | 30 |
| Flathead Excl. of | 2 | 9 | 11 | 9 | 2 |
| Kalispell | 6 | 10 | 16 | 8 | 8 |
| Gallatin Excl. of | 11 | 6 | 17 | 9 | 8 |
| Bozeman | 12 | 5 | 17 | 7 | 10 |
| Granite | 2 | 3 | 5 | 4 | 1 |
| Jefferson | 6 | 5 | 11 | 4 | 11 |
| Lewis and Clark Excl. of | 7 | 7 | 14 | 4 | 10 |
| Helena | 10 | 13 | 23 | 17 | 6 |
| Lincoln | 5 | 3 | 8 | 3 | 5 |
| Madison | 1 | 6 | 7 | 3 | 4 |
| Meagher | 3 | 8 | 11 | 2 | 9 |
| Missoula Excl. of | 4 | 6 | 10 | 12 | 2 |
| Missoula City | 20 | 12 | 32 | 13 | 19 |
| Musselshell | 11 | 7 | 18 | 3 | 15 |
| Park Excl. of | 1 | 4 | 5 | 3 | 3 |
| Livingston | 10 | 6 | 16 | 7 | 9 |
| Powell | 6 | 8 | 14 | 7 | 7 |
| Ravalli | 16 | 10 | 26 | 8 | 18 |
| Rosebud | 9 | 2 | 11 | 7 | 4 |
| Sanders | 1 | 1 | 2 | 4 | 2 |
| Silver Bow Excl. of | 20 | 20 | 40 | 18 | 22 |
| Butte | 50 | 34 | 84 | 66 | 18 |
| Sweet Grass | 4 | 2 | 6 | 4 | 2 |
| Teton | 8 | 9 | 17 | 10 | 7 |
| Valley | 17 | 13 | 30 | 5 | 25 |
| Yellowstone Excl. of | 3 | 13 | 16 | 7 | 9 |
| Billings | 17 | 20 | 37 | 9 | 28 |
| Blaine | 11 | 14 | 25 | 3 | 22 |
| Big Horn | | | | | |
| Fallon | 4 | 9 | 13 | 2 | 11 |
| Hill | 9 | 20 | 29 | 5 | 24 |
| Mineral | 1 | 2 | 3 | 2 | 1 |
| Richland | 3 | 7 | 10 | 5 | 5 |
| Sheridan | 6 | 7 | 13 | 9 | 4 |
| Stillwater | 3 | 1 | 4 | 1 | 3 |
| Toole | 2 | 2 | 4 | 2 | 1 |
| Wibaux | 2 | 2 | 4 | 2 | 2 |
| Total | 416 | 439 | 855 | 393 | 480 |
| *Stillbirths | | | | | 21 |

SHIFTED THE BURDEN.

Recently an Oklahoma teacher told all the boys in Jimmie's class they were to get a speech for the closing Friday, absolutely without help from anyone. When Jimmie's time came, he stepped out before a large audience and said:

"No one knows my piece but the Lord and me,"—and after looking at the ceiling for a moment he added: "I believe the Lord is the only one that knows it now."

QUITE.

"Was your husband cool when you told him there was a burglar in the house?" asked Mrs. Hammett.

"Cool," replied Mrs. Gabb, "I should say he was cool. Why, his teeth chattered."

FOOD AND DRUG DEPARTMENT.

LABORATORY REPORT.

Samples Reported During the Month of September.

| Classification | Legal | Illegal | Total |
|---------------------------------------|-------|---------|-------|
| Milk (Board of Health) | 28 | 6 | 34 |
| Ice Cream (Board of Health) | 4 | 1 | 5 |
| Ice Cream (Dairy Commission) | .. | 1 | 1 |
| Miscellaneous (Board of Health) | 20 | 1 | 21 |
| Water | .. | .. | 23 |
| Total | 52 | 9 | 84 |

The analyses of eighty-four samples of food and water were reported during the month of September. Thirty-four samples of milk were analyzed, six of which were below the standard in fat. Two of these samples were collected in Bozeman, two in Three Forks, one in Glasgow and one in Malta.

Two samples of ice cream out of a total of six were below standard in fat.

The twenty-one miscellaneous food samples examined are classified below:

| | | | |
|----------------|---|------------------------|----|
| Vinegar | 1 | Chilli Con Corne | 1 |
| Clams | 2 | Soup | 2 |
| Cider | 1 | Oysters | 4 |
| Beans | 1 | Soft Drinks | 2 |
| Chowder | 3 | Shrimp | 2 |
| Cod fish | 1 | Crabs | 1 |
| | 9 | | 12 |
| Total | | | 21 |

Twenty-three water samples were analyzed in the bacteriological and chemical laboratories. The samples came from the following places:

| | |
|--------------------|----|
| Argenta | 1 |
| Ballantine | 1 |
| Big Sandy | 1 |
| Billings | 1 |
| Cut Bank | 1 |
| Havre | 3 |
| Kalispell | 1 |
| Paradise | 1 |
| Plentywood | 2 |
| Rexford | 2 |
| Troy | 1 |
| Twin Bridges | 1 |
| Whitehall | 5 |
| Whitefish | 1 |
| Yellowstone | 1 |
| Total | 23 |

One of the above sources of water was condemned, five were pronounced suspicious and four were reported doubtful and further inspection and sampling recommended.

A more detailed report of the food samples follows:

MILK.
Standard or Above.

| Lab. No. | Date | Obtained from | Town | Total Solids | | |
|-------------|---------|------------------------------------|-------------------|--------------|----------------|------|
| | | | | % | Solids not fat | Fat |
| 3779 | 9-11-14 | Mrs. Cass | Bozeman | 13.02 | 8.72 | 4.30 |
| 3789 | 9-11-14 | Mrs. E. E. Hammond | Bozeman | 12.93 | 8.73 | 4.20 |
| 3780 | 9-10-14 | A. E. Westlake | Bozeman | 13.32 | 8.52 | 4.80 |
| 3781 | 9-10-14 | W. E. Harmon & Co. | Bozeman | 13.64 | 9.44 | 4.20 |
| 3782 | 9-11-14 | R. G. Gallup | Bozeman | 13.28 | 9.18 | 4.10 |
| 3784 | 9-11-14 | J. W. Edwards | Bozeman | 17.68 | 9.00 | 8.68 |
| 3785 | 9-11-14 | Ah Hoy and Charlie Quong | Bozeman | 14.89 | 8.79 | 6.10 |
| 3787 | 9-11-14 | Bozeman Hotel | Bozeman | 12.59 | 8.69 | 3.90 |
| 3788 | 9-11-14 | Gallatin Hotel | Bozeman | 15.77 | 8.67 | 7.10 |
| 3805 | 9-12-14 | G. C. Van Anken | Three Forks | 12.32 | 8.52 | 3.80 |
| 3806 | 9-12-14 | Montana Cafe | Three Forks | 13.74 | 9.14 | 4.60 |
| 3807 | 9-12-14 | F. W. Wigert | Three Forks | 13.72 | 8.92 | 4.80 |
| 3808 | 9-12-14 | J. E. Goodall | Three Forks | 14.21 | 8.61 | 5.60 |
| 3811 | 9-12-14 | T. Niven | Manhattan | 13.54 | 8.94 | 4.60 |
| 3812 | 9-12-14 | G. Townsend | Manhattan | 12.14 | 8.74 | 3.40 |
| 3790 | 9-11-14 | Mrs. C. F. Jump | Bozeman | 12.43 | 8.83 | 3.60 |
| 3791 | 9-11-14 | Thos. Webster | Bozeman | 12.58 | 8.98 | 3.60 |
| 3792 | 9-11-14 | Mrs. J. E. Huff | Bozeman | 15.00 | 9.70 | 5.30 |
| 3793 | 9-12-14 | John C. Rusher | Glasgow | 13.67 | 9.17 | 4.50 |
| 3794 | 9-12-14 | E. A. Edberg | Glasgow | 12.59 | 9.09 | 3.50 |
| 3795 | 9-12-14 | Yong Chong & Co. | Malta | 13.32 | 9.32 | 4.00 |
| 3796 | 9-12-14 | Kram & Bruen, Arcade Cafe | Malta | 12.60 | 9.20 | 3.40 |
| 3798 | 9-12-14 | A. Beaubien | Malta | 12.72 | 9.22 | 3.50 |
| 3799 | 9-12-14 | City Cafe, J. T. Katoki | Glasgow | 12.26 | 8.76 | 3.50 |
| 3800 | 9-12-14 | Coleman Hotel, H. M. Wilson | Glasgow | 14.11 | 9.31 | 4.80 |
| 3801 | 9-12-14 | Chas S. Vinson, Phoenix Cafe | Glasgow | 13.69 | 9.09 | 4.60 |
| 3803 | 9-12-14 | T. A. Hauge, Model Bakery | Glasgow | 13.47 | 8.97 | 4.50 |
| 3804 | 9-12-14 | G. N. R. R. Restaurant | Glasgow | 12.56 | 9.06 | 3.50 |

MILK.
Below Standard.

| Lab. No. | Date | Obtained from | Town | Remarks. |
|-------------|---------|---------------------------------|--------------|-------------|
| 3783 | 9-11-14 | Bozeman Farmers' Creamery | Bozeman. | Low in fat. |
| 3786 | 9-11-14 | Chin Ah Ban | Bozeman. | Low in fat. |
| 3797 | 9-12-14 | C. E. Hayden | Malta. | Low in fat. |
| 3802 | 9-12-14 | T. A. Haage, Model Bakery | Glasgow. | Low in fat. |
| 3809 | 9-12-14 | Gust Chryst | Three Forks. | Low in fat. |
| 3810 | 9-12-14 | C. A. Burroughs | Three Forks. | Low in fat. |

ICE CREAM.
Standard or Above.

| Lab. No. | Date | Obtained from | Fat % | Remarks. |
|-------------|---------|---------------------------|-------|-----------|
| 2816 | 9-19-14 | Mr. Brazier, Helena | 19.0 | Standard. |
| 3817 | 9-19-14 | Helena Drug Company | 16.0 | Standard. |
| 3818 | 9-19-14 | Gamer's, Helena | 15.0 | Standard. |
| 3819 | 9-19-14 | Shelton, Helena | 21.0 | Standard. |

ICE CREAM.
Below Standard.

| Lab. No. | Date | Obtained from | Town | Fat | Remarks |
|-------------|---------|------------------|------------|-------|-------------|
| 3815 | 9-19-14 | O. Johnson | Helena ... | 10.0% | Adulterated |

MILK.

It has been found in an extensive study of the milk supplies of the state that many samples collected by health officers did not meet the requirements of the state food law. Many of the samples showed evidences of skimming while others were watered. Skimming and watering regular market milk are practices that lower the food value of the product and also make it less palatable and are classed as fraudulent to distinguish them from practices that are injurious to the health of the consumer. In this class would come the addition of chemical preservatives to milk. In a few instances only were preservatives found.

The real test of quality of a milk from the sanitary aspect, is not in its chemical composition as regards fat and solids. One writer states that "the real danger in the milk supply is in the dirt in the bottom of the bottles. The actual injury to the infant is caused by the bacteria which careless handling has allowed to reach the milk and breed countless millions of their kind."

Therefore, the consumer should be much concerned with the efforts of all officials whose duty it is to see that the

market is supplied not only with milk that conforms to the chemical standard, but also milk that is free from dirt and satisfactory from the sanitary aspect. If this interest is of a practical kind the consumer could follow a suggestion published in a recent number of the Bulletin of the Chicago School of Sanitary Instruction:

"Housewives who note a dirt sediment in the milk delivered to them in bottles can apply this test to the milk and present the pledget of cotton to their milkman as proof positive of a dirty, unsafe delivery. A simple method of applying this test to the milk is to use a perfectly clean funnel inside of which a small piece of clean wire netting has been fitted at the neck opening, placing on this wire screen a thin layer of clean cotton. Stand the funnel in a large Mason jar and filter the milk through the cotton. Remove the pledget carefully and place on a clean white card to dry.

If there is evidence of dirt on the cotton call the attention of the milkman to it. If there is no improvement in subsequent deliveries, notify the Health Department.

"If you strike a thorn or rose,
Keep a-goin'!
If it hails or if it snows,
Keep a-goin'
'Taint no use to sit an' whine,
When the fish ain't on your line;
Bait your hook an' keep on tryin'
Keep a-goin'!"

"When the weather kills your crop,
Keep a-goin'
When you tumble from the top,
Keep a-goin'
S'pose you're out o' every dime?
Gettin' broke ain't any crime;
Tell the world you're feelin' Prime!
Keep a-goin'!"

"When it looks like all is up,
Keep a-goin'
Drain the sweetness from the cup,
Keep a-goin'
See the wild birds on the wing!
Hear the bells that sweetly ring!
When you feel like sighin'—Sing!
Keep a-goin'!"

